



# **Section F**

## ***300 Area Facility Transition***

### **PROJECT MANAGERS**

B. Bilson, RL  
(509) 376-6628

N.C. Boyter, FH  
(509) 373-3725

## **SUMMARY**

The 300 Area Facility Transition consists of 324 Facility Safe Shutdown, 327 Facility Safe Shutdown, Miscellaneous Radiological Facilities Deactivation, and Project Management and Support, Project Baseline Summary (PBS) RL-RC06, Work Breakdown Structure (WBS) 3.1.6.

NOTE: Unless otherwise noted, all information contained herein is as of the end of September 2002.

Fiscal-year-to-date milestone performance (EA, DOE-HQ, and RL) shows that two milestones were completed on schedule and one milestone is overdue.

## **TOP 5 ACCOMPLISHMENTS FOR FY 2002**

The Voluntary Protection Program Star Status was awarded to the project, then called the River Corridor Project, and now known as the Central Plateau Remediation Project (CP).

The 324 Building staff met the accelerated schedule goal of completing four Spent Nuclear Fuel (SNF) shipments by September 30, 2002. Shipments three and four were completed seven weeks ahead of the performance incentive date of November 20, 2002.

TRP-02-700, "Complete >27% Remaining 324/327 Deactivation Life Cycle Scope," was completed more than a month early, and resulted in the movement of 342,113 curies away from the Columbia River from October 1, 2000 through May 26, 2002.

The successful removal of the curium source, and shipment to the Central Waste Complex cleared the way for the completion and implementation of the 327 Building Basis for Interim Operations (BIO), resulting in reduction from a Nuclear Hazard Category 2 to a Nuclear Hazard Category 3 facility.

The final River Corridor Transition Plan was submitted to and accepted by RL.

## **ADDITIONAL FY 2002 ACCOMPLISHMENTS**

The 310 TEDF/340 Facility Project was successfully transitioned to the Waste Management Project July 8, 2002.

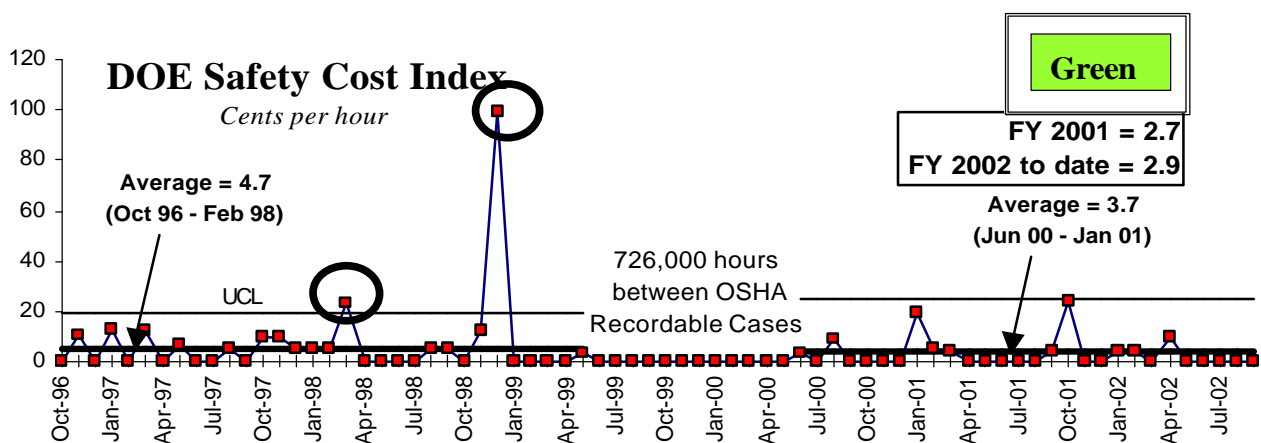
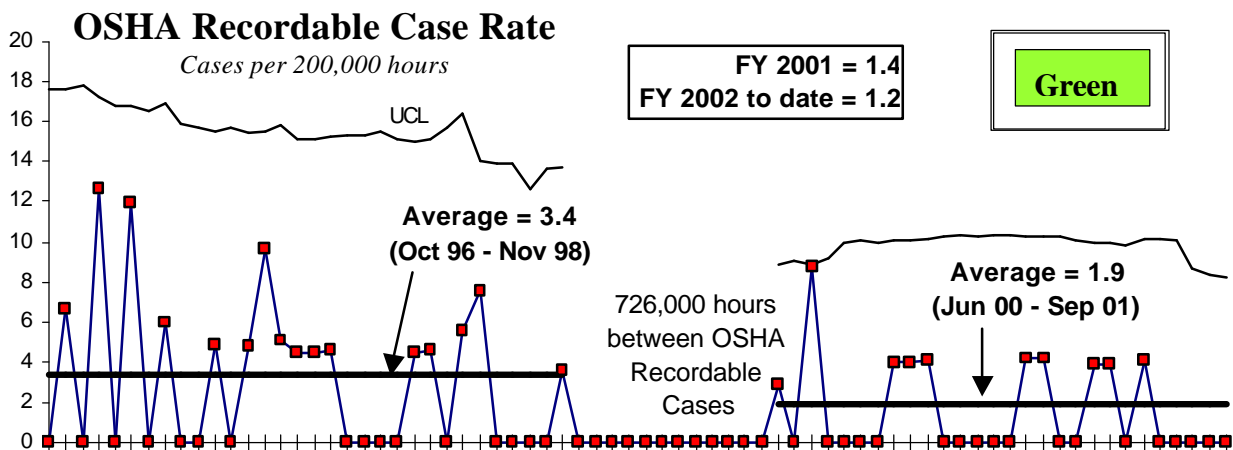
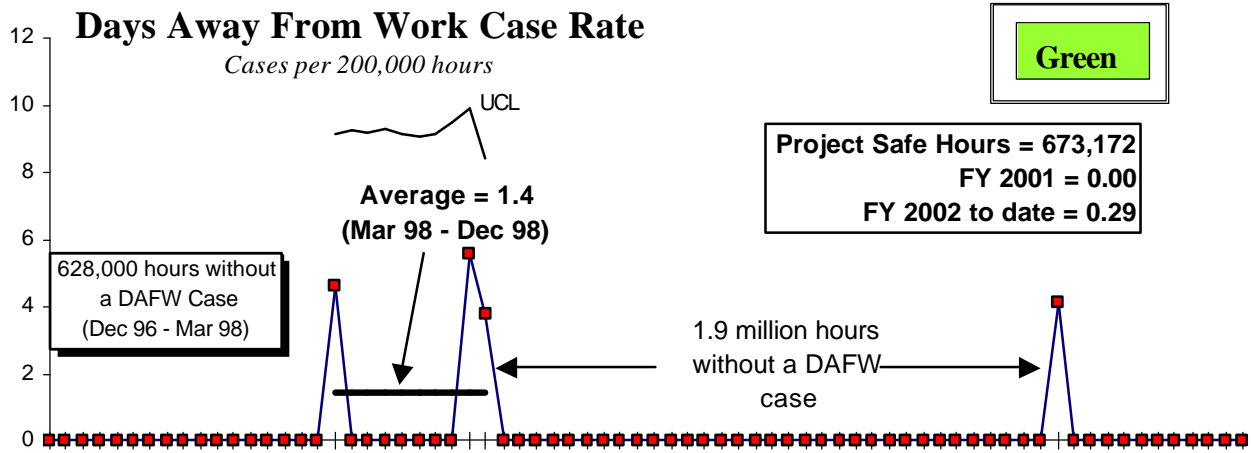
The 324 Building received the AEA Artisan Arm on September 30, 2002; cleanout of the pipetrench was completed; and the Mark-42 fines were shipped to the Central Waste Complex reducing the curie inventory by 350. In addition, staff completed shipment of 18 drums of compactable low-level waste, two boxes of low-level waste and one container of PNNL Legacy Waste.

The 327 Building I Cell cleanout was completed and the inventory for the building was significantly reduced with the removal of all 16 waste buckets from B and C Cells. Additionally, cleanout of the basement was completed.

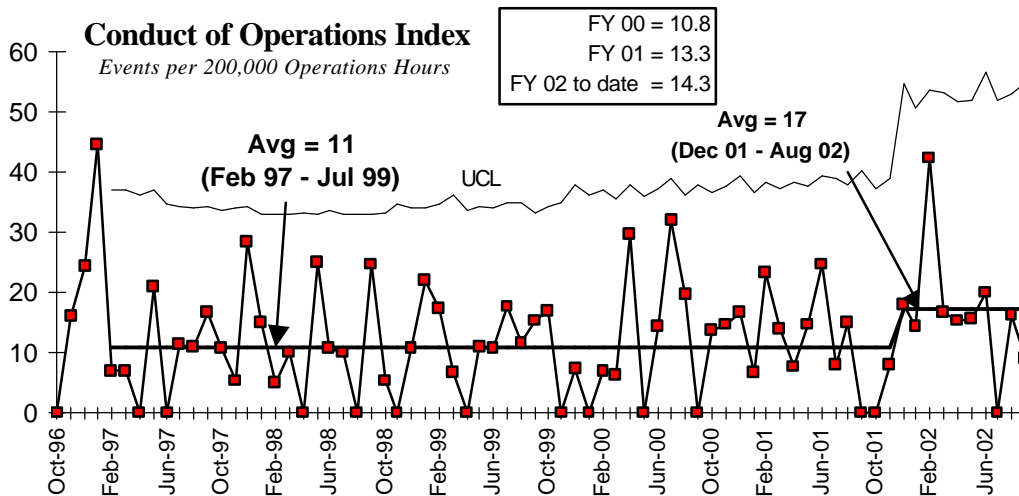
Removal of the 303K slab was completed and the 303K Resource Conservation and Recovery Act (RCRA) Closure Certification for final closure was received from the State of Washington Department of Ecology. In addition, the Closure Certification for partial closure of the 300 Area Waste Acid Treatment System was approved by Ecology.

## SAFETY

At fiscal year-end 2002, the Central Plateau Remediation Project (CP) had achieved 673,172 safe work hours since the last Days Away from Work case. The OSHA Recordable case Rate was 1.2; down from the 2001 rate of 1.4, and the overall rating for CP was green.



## CONDUCT OF OPERATIONS



## BREAKTHROUGHS / OPPORTUNITIES FOR IMPROVEMENT

### Breakthroughs

**Monolithic Removal of 327 Hot Cells** — In order to support accelerated 300 Area closure, CP is integrating decommissioning and demolition with deactivation activities where practical. Intact removal of the 327 hot cells appears to be technically feasible, to have potentially significant ALARA benefits, and to result in schedule/cost reduction. Certification that the hot cells can be disposed of as non-Transuranic waste is key to adopting monolithic removal as the technical baseline. CP was successful in obtaining Accelerated Site Technology Deployment (ASTD) funding (\$935K) to purchase in-situ characterization instruments that will lead to the eventual low-level waste certification. The four proposed instruments (Cartogam gamma camera, ISOCs gamma spectrometer, Neutron Detection Instrument Pod, and activated copper foil) were all demonstrated to be operationally ready by deploying them in the 327 Building's G Cell. This demonstration exceeded an October 14 DOE-HQ milestone to have the instruments ready for deployment.

### Opportunities for Improvement

None to report.

## UPCOMING ACTIVITIES

**Spent Nuclear Fuel (SNF)** — Complete transfer of sixth NAC-1 cask containing boiling water reactor (BWR) spent nuclear fuel and transfer of SNF pins and pieces by November 20, 2002.

**Contract Transition** — Support transfer of FH scope to River Corridor Closure Contract (RCCC). Received a modification that changed the date from July 1, 2002, to "at direction of the Contracting Officer." FH ready to initiate transition upon direction from RL.

## MILESTONE ACHIEVEMENT

### FH Contract Milestones

MSN	Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
M-92-14	Complete Removal and Transfer, and Initiate Storage of Phase I 300 Area SCW and Materials	EA	9/30/02	3/28/00		Complete
TRP-02-700	Complete > 27% Remaining 324/327 Deactivation LC Scope	PI	6/30/02	6/30/02		Complete
TRP-02-701	Support RCP Contract Transition Plan	PI	6/30/02		TBD	A Baseline Change Request (BCR) which proposes deletion of this milestone due to the delays in awarding the River Corridor Contract and the approved modification of PI expectation was submitted to RL on 9/11/02. Awaiting RL approval.
M-94-02	Submit an Amendment to the Existing 324 Building REC/HLV Closure Plan	TPA	7/30/02	7/30/02		Complete
M-92-15	Complete Removal and Transfer, and Initiate Storage of Phase II 300 Area SCW and Materials	EA	9/30/04	9/19/01		Complete

## PERFORMANCE OBJECTIVES

### Outcomes: Restore the River Corridor for Multiple Uses

Performance Indicator	Status
<b>FHI-M8 – 300 Area Cleanup</b>	
Measure 1: Accelerate 300 Area Cleanup	
Expectation 1: Deactivate 324/327 Buildings	
Base: Complete 27% remaining 324/327-baseline work by June 30, 2002.	Complete.
Base: Complete B Cell cleanout and shipment of B Cell waste to 200 Area Burial Grounds.	Complete.
Stretch: Complete additional 2.5% remaining 324/327-baseline work.	Complete.
Expectation 2: Disposition surplus facilities	
Base: Disposition 3902A, 3802B & 303-K by September 30, 2001.	Complete.
Expectation 3: Disposition uranium billets, uranium dioxide, scrap materials in 200/300 Areas, and 303-K thorium-232 by September 30, 2001.	Complete.
Measure 2: Support RC contract transition	
Expectation 1:	
Stretch: Support RC contract transition by July 1, 2002.	Received a modification to the PI that changed the date from July 1, 2002, to "at direction of the contracting officer." FH ready to initiate transition upon direction from RL.
<b>FHI-M8A – 300 Area Cleanup</b>	
Measure 1: Maintain Progress on 300 Area Cleanup	

Expectation 1: 324 Building Spent Nuclear Fuel removal

Base 1: Complete transfer of two NAC-1 casks by September 30, 2002. Complete.

Base 2: Complete transfer of two additional NAC-1 casks by November 20, 2002. Complete.

Stretch: Complete transfer of fifth NAC-1 cask by November 20, 2002. Complete.

Measure 2: Accelerate Progress on 300 Area Cleanup

Expectation 1: Accelerate removal of Spent Nuclear Fuel and Special Nuclear Materials from the 324 Building

Super Stretch 1: Complete transfer of sixth NAC-1 cask by November 20, 2002, or 90 days after award of River Corridor Contract, but not later than December 20, 2002. On schedule to complete by November 20, 2002.

Super Stretch 2: Complete transfer of pins and pieces by November 20, 2002, or 90 days after award of River Corridor Contract, but not later than December 20, 2002. On schedule to complete by November 20, 2002.

## FY 2002 SCHEDULE / COST PERFORMANCE – ALL FUND TYPES FY TO DATE STATUS – (\$000)

Sub-Project		BCWS	BCWP	ACWP	SV	%	CV	%	BAC
PBS RC06 WBS 3.1.6.1	324 Facility Safe Shutdown	21,880	22,837	23,378	957	4%	(541)	-2%	21,880
PBS RC06 WBS 3.1.6.2	327 Facility Safe Shutdown	6,896	7,103	5,722	207	3%	1,381	19%	6,896
PBS RC06 WBS 3.1.6.3	Misc. Radiological Facilities Deactivation	2,519	2,488	1,897	(31)	-1%	592	24%	2,519
PBS RC06 WBS 3.1.6.4	300 Area Facilities Project Management	7,027	7,302	5,335	275	4%	1,967	27%	7,027
<b>Total 300 Area FT</b>		<b>38,323</b>	<b>39,731</b>	<b>36,332</b>	<b>1,408</b>	<b>4%</b>	<b>3,399</b>	<b>9%</b>	<b>38,323</b>

## FY TO DATE SCHEDULE / COST PERFORMANCE

The favorable schedule variance of \$1.4M (4 percent) is primarily due to 327 Building outyear work scope being performed ahead of schedule offset by Liquid Waste Handling System work scope delay pending evaluation of baseline against 2012 Plan. The favorable cost variance of \$3.4M (9 percent) is due to less than planned labor and contract costs.

For all active sub-PBSs and TTPs associated with the Operations/Field Office, Fiscal Year to Date (FYTD) Cost and Schedule variances exceeding + / - 10 percent or one million dollars require submission of narratives to explain the variance.

## Schedule Variance Analysis: (+ \$1.4M)

All sub-projects are within established thresholds.

## Cost Variance Analysis: (+ \$3.4M)

### 327 Facility Safe Shutdown — 3.1.6.2/RC06

**Description and Cause:** The favorable cost variance was primarily due to min-safe activities being performed for less than planned.

**Impact:** No impact.

**Corrective Action:** None required.

### Misc. Radiological Facilities Deactivation — 3.1.6.3/RC06

**Description and Cause:** The favorable cost variance was due to labor efficiencies, and lower than expected contract and material costs.

**Impact:** No impact.

**Corrective Action:** None required.

### 300 Area Facilities Project Mgt & Support — 3.1.6.4/RC06

**Description and Cause:** The favorable cost variance was primarily due to labor underruns as a result of staff vacancies not yet filled.

**Impact:** No impact.

**Corrective Action:** Any underruns in funding will be utilized to support other priority work scope.

All other sub-projects are within established thresholds.

## Funds Management FY 2002 FUNDS VS ACTUALS (\$000)

	FH Funds Reallocation	September Actuals	Variance
<b>Central Plateau</b>			
RC01, RC02, RC06, CP01,SS03, SS04			
Project Completion - Operating	\$ 37,484	\$ 36,332	\$ 1,152
Post 2006 * - Operating	\$ 23,945	\$ 17,879	\$ 6,066
- Line Item	\$ -	\$ -	\$ -
<b>Total</b>	<b>\$ 61,429</b>	<b>\$ 54,211</b>	<b>\$ 7,218</b>

[Status through September 2002]

## ISSUES

### Technical Issues

**Issue:** Ability to accelerate 324 schedule for five pressurized water reactor spent fuel assembly shipments by September 30, 2002, vs. December 2002, is potentially impacted by equipment delivery delays and late completion of the Readiness Assessment (RA).

**Impact:** Must recover lost time in order to accomplish accelerated schedule.

**Action Plan:** The fourth of five PWR shipments was transported to the 200 Area Interim Storage Area (ISA) meeting the accelerated schedule and seven weeks ahead of the baseline schedule. The fifth is scheduled for shipment on October 2, 2002, narrowly missing the accelerated schedule, but six weeks ahead of the baseline schedule.  
(This is the last report for this item.)

**Issue:** 324 Shielded Material Facility (SMF) Artisan Arm procurement.

**Impact:** The Artisan Arm is required to complete activities in the SMF.

**Action Plan:** The Artisan Arm was received on September 30, 2002.  
(This is the last report for this item.)

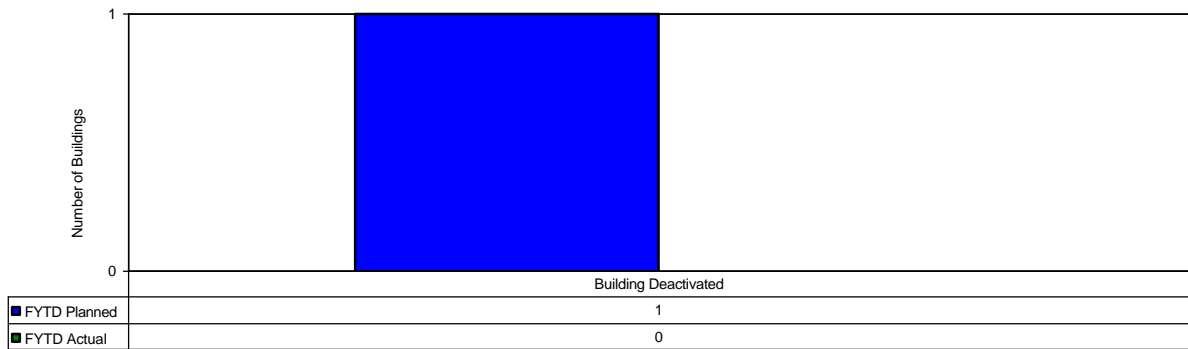
### Regulatory Issues, DOE Issues, External Issues and DOE Requests

None to report.

## BASELINE CHANGE REQUESTS CURRENTLY IN PROCESS

BCR No. Level 4 WBS	Date Originated	Description	Impact		Date Approved	Status
			Days	Dollars (\$000s)		
FY 2002						
RC06-02-007 3.1.6.4	4/22/02	River Corridor Prj (RCP) Transition Activities		\$624		BCR will be held until the River Corridor Contract is awarded.
RC06-02-010 3.1.6.4	8/19/02	Delete Milestone TRP-02-701 for River Corridor Contract Award and Transition				Submitted to RL for approval.
FY 2003						
RC06-03-001 3.1.6.1	10/4/02	Authorize Performance of 324 SNF/SNM Superstretch		NA		Submitted to RL for approval.

## BUILDINGS DEACTIVATED



**RC Buildings Deactivated:** Building deactivation of 377 has been delayed to the original FY 2005 EM Commitment date due to less than planned funding in FY 2002.